ROBOTICS



Integrated Software and Controls

Proven Implementations

With over 25 years in warehouse automation and 1000+ successfully implemented customer sites worldwide, Pyramid brings immense engineering and systems experience to cutting-edge warehouse robotics. Our MHE-agnostic approach and vast tier 1 WMS experience enables us to maximize material flow by connecting and optimizing discrete automation processes to make robots work better.

While we are known for robust warehouse execution systems, integrated controls and light-directed technologies to boost efficiency, Pyramid has already enhanced robotics operations within a number of systems spanning multiple industries:

- E-commerce
- Third Party Logistics (3PL)
- Medical Supplies
- Food and Beverage/E-grocery

Pyramid's flexible and scalable warehouse software and advanced batching solutions add value and efficiency to many leading robotics brands, including:

- Covariant - Robotic Put Walls
- Berkshire Grey
- Exotec - Goods-to-Person
- Locus - Picking
- CAJA
- AutoStore - AS/RS integration to AMRs
- Tompkins - T-Sort
- Columbia - Robotic Palletizer
- BPA - Robotic Arm
- Guidance Automation - AMRs
- MiR - AMRs

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AMR Integration

Pyramid software implements autonomous mobile robot (AMR) cart-based picking, for example, RF cluster picking and integrated light-directed picking. The Warehouse Execution System (WES) interfaces with the AMR Fleet Management System to create pick tasks, distribute them to the fleet and execute picks— resulting in up to 3 times the picking efficiency.



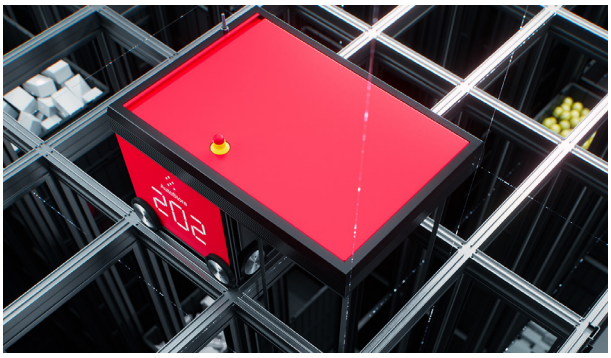
Robotic Arm Integration

Robotic arm applications such as robotic put walls and palletization complement manual processes and enable lights-out, fully-automated facility operations. Pyramid software passes data and instructions to the robotic arm. Pyramid assigns and tracks SKUs to pallet positions and cubby locations. In one system, our software managed 12 robotic put walls, picking over 10,000 items per month.



Robotic Case Packing Integration

Pyramid software interfaces to robotic packing cells to pass data and instructions. It manages autoboxing of manufactured products coming directly from production lines. Through the process, Pyramid tracks the product through the automated packaging and prints and applies case labels to the finished cases. This reduces opportunities for human error and reliance on seasonal labor by 75%.



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